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(71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): WEMELSFELDER, Armand, V. [NL/NL]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: GROENENDAAL, Antonius, W., M.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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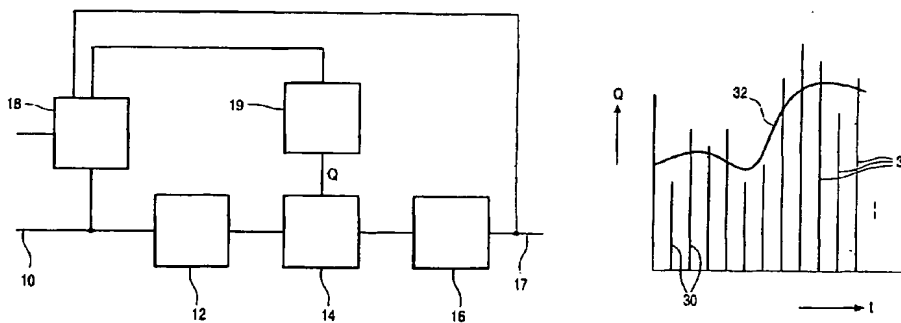
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(54) Title: VIDEO ENCODING WITH CONSTRAINED FLUCTUATIONS OF QUANTIZER SCALE



(57) Abstract: During video compression quantizer scale values for respective blocks under control of a complexity of a content of image information. The temporal and or spatial fluctuations of the quantizer scale values are dampened, for example by low pass filtering provisionally selected quantizer scale values. The quantizer scale values are used to quantize the video data. The quantizer scale values may also be used during transcoding.

INTERNATIONAL SEARCH REPORT

 Internat application No
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 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04N7/26 H04N7/30 H04N7/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 532 940 A (AGARWAL ROHIT ET AL) 2 July 1996 (1996-07-02) column 11, line 30 -column 13, line 12 figure 4	1-3,5-7, 9
A	---	4,8
X	US 4 302 775 A (FRALICK STANLEY C ET AL) 24 November 1981 (1981-11-24) column 8, line 24 -column 10, line 63	1,3,5,7, 9
A	---	2,4,6,8
X	EP 0 951 184 A (SONY CORP) 20 October 1999 (1999-10-20) paragraph '0165! - paragraph '0183!	1,3,5,7, 9
A	---	2,4,6,8
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Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040. Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Lombardi, G

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BARZYKINA E ET AL: "Image compression for facial photographs based on wavelet transform"</p> <p>COMMUNICATIONS, COMPUTERS AND SIGNAL PROCESSING, 1997. 10 YEARS PACRIM 1987-1997 - NETWORKING THE PACIFIC RIM. 1997 IEEE PACIFIC RIM CONFERENCE ON VICTORIA, BC, CANADA 20-22 AUG. 1997, NEW YORK, NY, USA, IEEE, US, 20 August 1997 (1997-08-20), pages 322-325, XP010244979</p> <p>ISBN: 0-7803-3905-3</p> <p>page 324, paragraph "Frequency dependent quantization"</p> <p>----</p>	1-9
A	<p>GB 2 306 832 A (SONY UK LTD)</p> <p>7 May 1997 (1997-05-07)</p> <p>page 5, line 6 -page 10, line 4</p> <p>-----</p>	1-9

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